



Customized
Microwave
Solutions 



Syracuse, NY, USA

Network backbone upgrade with SAF 24GHz carrier-class unlicensed microwave systems for Syracuse Housing Authority, NY, USA

Partner: Transwave Communications
Customer: Syracuse Housing Authority (SHA)
Location: Syracuse, NY, USA
Solution: SAF CFIP-106 24GHz (106Mbps) and CFIP Lumina 24GHz (366Mbps) microwave radio systems

The Customer

Syracuse Housing Authority (SHA) is an expansive organization with a portfolio of properties and campuses located throughout greater Syracuse, NY. Their mission is to provide affordable living options for the elderly, disabled and low income families in the region.

Challenge

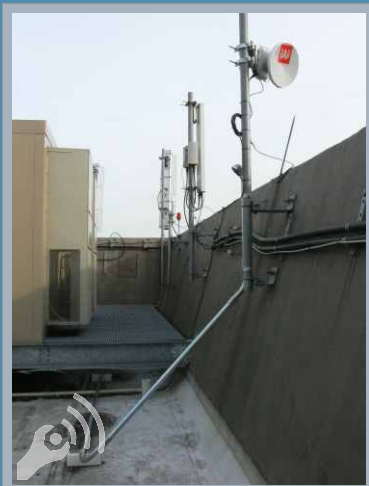
Because SHA are spread out over much of the City, they had needs to increase the efficiency of their Wide Area Network. Throughout the years they have utilized a variety of technologies and mediums ranging from microwave, cable modem services and standard telecom services. Of all the technologies they had used, microwave had proven to be the most reliable, cost effective and robust for their growing bandwidth needs. Until last year SHA had used wireless on a selected set of buildings and their experience had been very favorable. As the bandwidth needs increased at other properties of SHA, it was clear that they needed a major boost in bandwidth to support their other properties. They brought in their legacy provider of microwave, Transwave Communications Systems of nearby Clarence, NY to evaluate the feasibility of increasing their bandwidth to the other properties. Based on the terrain and the strategic location of the Authority properties, Transwave designed a very high speed distribution network that encompassed multiple properties.

Solution

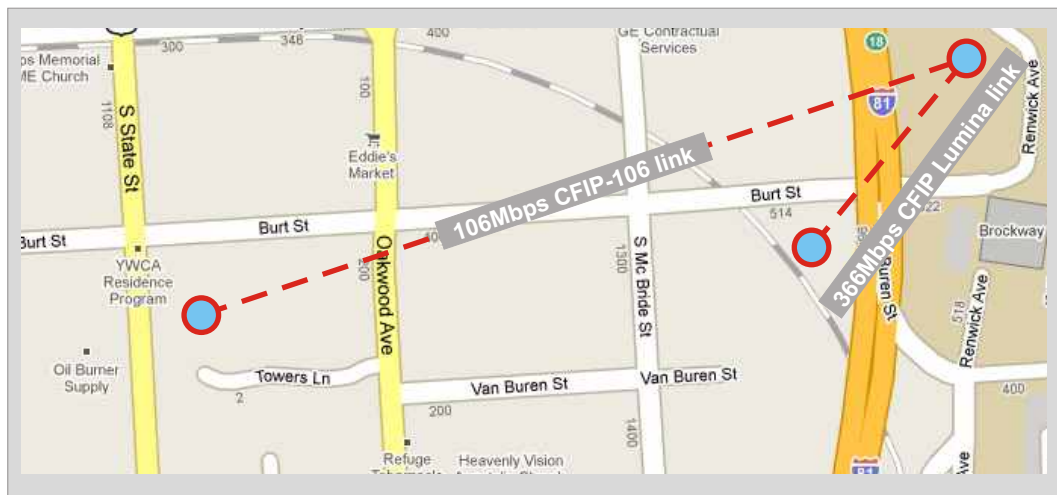
For the backbone segments, Transwave is utilizing a long time legacy European Manufacturer, SAF Tehnika. SAF manufactures a complete range of licensed (FCC part 101) and unlicensed (24GHz, FCC part 15) radio systems from 100Mbps to 366Mbps. Transwave is one of a very selected set of companies in North America that is authorized to sell, distribute, install and support SAF equipment.

In the initial build, a **CFIP-106 24GHz UL** radio system was used as part of a backbone distribution system to get data back to the Housing Authority's main office. The SHA initial build included five (5) properties. Because bandwidth to other properties in their network was still a priority, SHA initiated Transwave to provide options for expanding the other properties in their portfolio. Due to the flexibility of wireless and the investment protection, Transwave recommended a move of the existing SAF 106 Mbps backbone to another hub location and the installation of SAF 366 Mbps system CFIP Lumina to replace it for the major link to the SHA main office from the distribution hub.

With the new network, SHA has the ability to easily support their applications that range from day to day data transfer, security applications, building controls, video, security and more.



SHA SAF network topology



About Transwave Communications:

Transwave, a privately held company located in Clarence NY, is composed of a group of seasoned veterans of the microwave integration industry and providers of turnkey and sub contracted services throughout the country. Over the years, they have developed an excellent reputation as a provider of turnkey wireless solutions for entities that require reliable communications. Markets served include: critical applications for public safety, municipal IT, health care, education, military, carriers, industry, and much more. Transwave Enterprise offerings include complete, EF&I integration services, site surveys, tower design and build-outs, site development and the installation of various bandwidth management and CPE equipment. www.transwave.net



About Syracuse Housing Authority:

The Syracuse Housing Authority is located in Syracuse, New York and exists to provide quality, safe and affordable housing, to create opportunities for residents' self sufficiency and economic independence, and to empower individual potential in an environment where people want to live, work, and build communities. The Syracuse Housing Authority owns and manages 15 housing developments with over 2,500 apartments. Just over half the apartments are designated for the elderly or disabled with the remainder set aside for families. The Syracuse Housing Authority also operates the tenant based housing choice voucher program which provides subsidies to private landlords on behalf of more than 3,000 low income families.

About SAF Tehnika:

SAF Tehnika is committed towards providing strong focus on both the production and delivery of customer-adapted wireless solutions at a competitive price and highest standards of quality. SAF Tehnika recognizes its strengths in terms of the products we design, produce and repair, all of which are undertaken within the same HQ in Europe. This culminates in a perfect understanding of our entire equipment range and as the sole vendor delivering these products we have the flexibility to adapt the solutions to meet the needs of our customers.



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